



Capstone Project Title Approval Form

Group Code: [SD-3E1]

Proponents

Project Leader: June Charles Mariquit

Group Members:

Jayron David Sadian

Daniela Marquez

Rubylyn Rey

Proposed Capstone Project Title

Weather Reporting System

Name and Contact No. or Target Organization

Smart home system

Platform

IoT device/Mobile Application

Background of the Organization/Firm/Target Pilot Area

Smart home system is an advanced technology that allows home owners to control appliances or devices remotely using a smartphone through an internet connection.

Problem Statement

Problems	Causes	Solutions (As a Feature of your System)
Lot of people are getting sick because of climate change because we don't know if it will be a rainy day or it will be a sunny day.	People can't prepare what they will wear or whether they will bring an umbrella or a raincoat.	Application that quickly tell you what the weather will be like and suggest what to carry whether an umbrella or you should apply a sunblock

Objectives

This study aims to develop an weather reporting system for smart home that has the following specific objectives

Specific Objectives

1. To provide accurate and timely information about current weather conditions, including temperature, humidity and wind speed;

2. To forecast future weather patterns, including short-term forecasts and long-term forecasts;

3. To issue warnings and alerts for severe weather events, such as hurricanes, tornadoes and floods;

4. To promote public awareness and education about weather-related phenomena.

Specific Functions and Features



1. Real-time weather data
2. Data processing and analysis
3. Forecasting
4. Severe weather monitoring alerts

Significance and Possible Users

- Smart home owners

Level of Feasibility

- The proposed project is feasible because smart home owners can gain a comprehensive understanding of the practicality, viability, and sustainability of a weather reporting system and make informed decisions about whether to proceed with implementation.

For Review Committee Only

Comments:

Status:

- ☐ For Revision
- ☐ Approved
- ☐ Disapproved

Signature Over Printed Name

Note: You may attach the results of your survey and feasibility analysis, if needed.